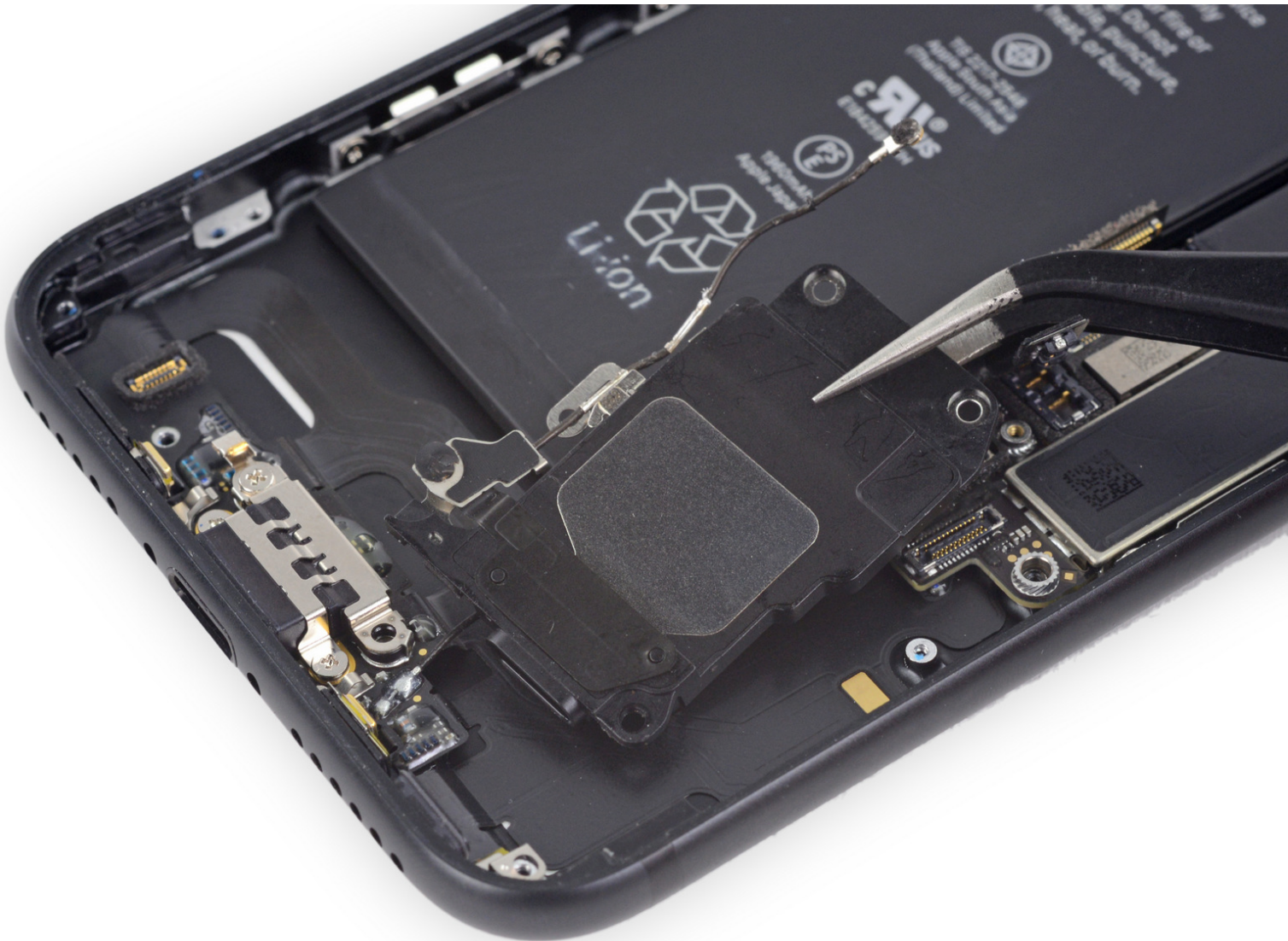




# iPhone 7 Speaker Replacement

Replace the speaker in an iPhone 7.

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## INTRODUCTION

Follow the steps in this guide to replace the loudspeaker in an iPhone 7. This guide includes instructions for removing the speaker assembly, and peeling off the Wi-Fi diversity antenna which needs to be transferred to your new loudspeaker.

Opening the iPhone 7 will damage the waterproof seals on the display. If you do not replace the adhesive seals, your phone will function normally, but will no longer be water-resistant.



### TOOLS:

- [P2 Pentalobe Screwdriver iPhone](#) (1)
- [iOpener](#) (1)
- [Suction Handle](#) (1)
- [Spudger](#) (1)
- [iFixit Opening Picks set of 6](#) (1)
- [Tri-point Y000 Screwdriver Bit](#) (1)
- [Tweezers](#) (1)
- [Phillips #000 Screwdriver](#) (1)





### PARTS:

- [iPhone 7 Loudspeaker](#) (1)
- [iPhone 7 Loudspeaker Gaskets](#) (1)


## Step 1 — Pentalobe Screws



-  Before you begin, discharge your iPhone battery below 25%. A charged lithium-ion battery can catch fire and/or explode if accidentally punctured.
- Power off your iPhone before beginning disassembly.
-  Opening the iPhone's display will damage its waterproof seals. If you do not replace the seals, your phone will no longer be water resistant.
- Remove the two 3.4 mm pentalobe screws on the bottom edge of the iPhone.

## Step 2 — Opening Procedure



-  Heating the lower edge of the iPhone will help soften the adhesive securing the display, making it easier to open.
- Use a hairdryer or [prepare an iOpener](#) and apply it to the lower edge of the iPhone for about a minute in order to soften up the adhesive underneath.



### Step 3



- Attach a suction cup to the lower half of the display assembly, just above the home button.
  - ⓘ Be sure the suction cup does not overlap with the home button, as this will prevent a seal from forming between the suction cup and front glass.

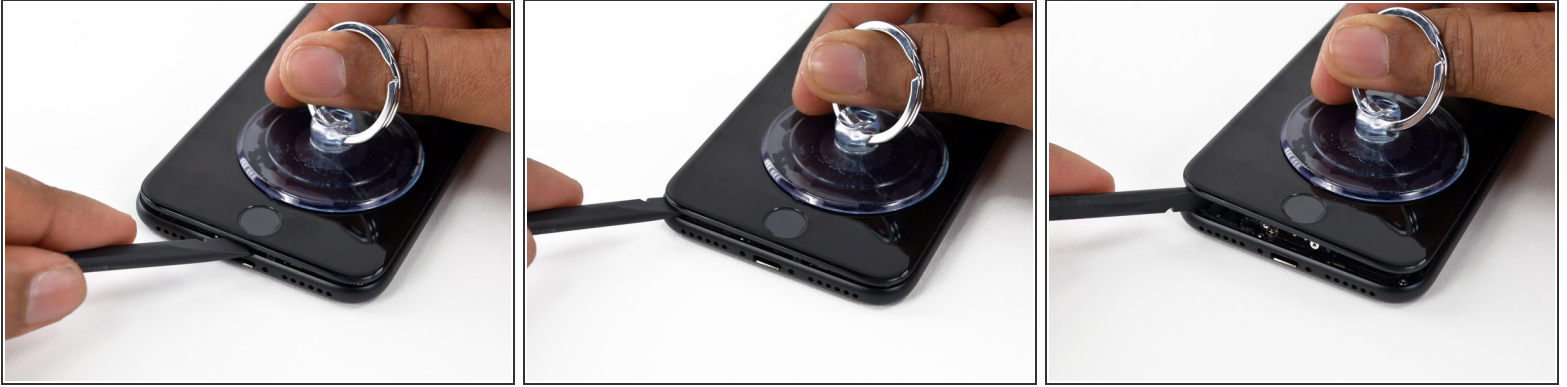
### Step 4



- Pull up on the suction cup to create a small gap between the display assembly and the rear case.
- Insert the flat end of a spudger into the gap.
  - ⓘ The watertight adhesive holding the display in place is very strong, and creating this initial gap takes a significant amount of force. If you're having a hard time opening a gap, rock the screen up and down to weaken the adhesive until you can fit a spudger inside.



## Step 5




- Slide the spudger to the left along the lower edge of the iPhone.
- Twist the spudger to widen the gap between the display and rear case.

## Step 6



- Slide the spudger up the left side of the iPhone, starting at the lower edge and moving towards the volume control buttons and silent switch.

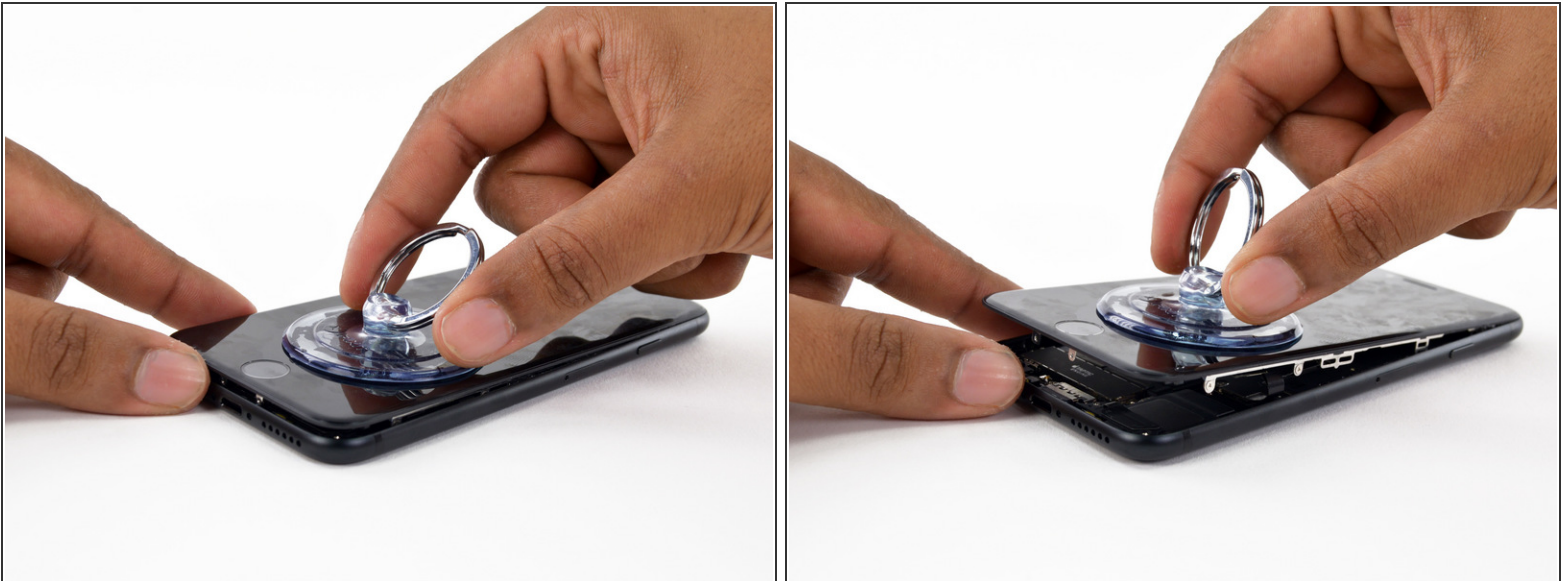
 Do not pry along the top edge of the phone, you risk damaging the plastic clips securing the display.

## Step 7




- Insert the flat edge of a spudger into the bottom right corner of the device.
- Twist the spudger to widen the gap between the display assembly and the rear case.
- Slide the flat end of the spudger up the right side of the phone to break up the adhesive holding the display in place.

## Step 8



- Pull up on the suction cup to lift up the display and open the iPhone.

 **Do not raise the display more than 10°** as there are ribbon cables along the right edge of the device connecting the display to the logic board.

## Step 9




- Pull up on the small nub on the suction cup to remove it from the front panel.

## Step 10



- Slide an opening pick along the top edge of the iPhone, between the rear case and front panel, to break up the remaining adhesive holding the screen in place.

 Be careful not to damage the plastic clips on the top edge of the phone.



## Step 11



- Pull the display assembly slightly away from the top edge of the phone to disengage the clips holding it to the rear case.
  - Open the iPhone by swinging the display up from the left side, like the back cover of a book.
- ⚠ Don't try to fully separate the display yet, as several fragile ribbon cables still connect it to the iPhone's logic board.

## Step 12 — Battery Disconnection



- Remove the following tri-point Y000 screws from the lower connector bracket:
  - Three 1.2 mm screws
  - One 2.4 mm screw


## Step 13



- Remove the lower connector bracket.

## Step 14



- Use the point of a spudger to lift the battery connector out of its socket on the logic board.
-  Bend the connector cable up slightly to prevent it from making contact with the socket and providing power to the phone.



## Step 15 — Display Assembly



- Use the flat end of a spudger or a fingernail to disconnect the two lower display connectors by prying them straight up from their sockets on the logic board.
- ☞ To reconnect these cables, press down on one end until it clicks into place, then repeat on the opposite end. **Do not** press down on the middle. If the connector is even slightly misaligned, the connector can bend, causing permanent damage.

## Step 16



- Remove the two 1.3 mm Phillips screws securing the bracket over the front panel sensor assembly connector.
- Remove the bracket.



## Step 17



- Disconnect the front panel sensor assembly connector from its socket on the logic board.
- ☑ This press connector should also be reconnected one end at a time to minimize the risk of bending.

## Step 18



- Remove the display assembly.
- ☑ During reassembly, pause here if you wish to [replace the adhesive around the edges of the display](#).

## Step 19 — Barometric Vent



- Remove the two 1.9 mm Phillips screws securing the barometric vent to the rear case.

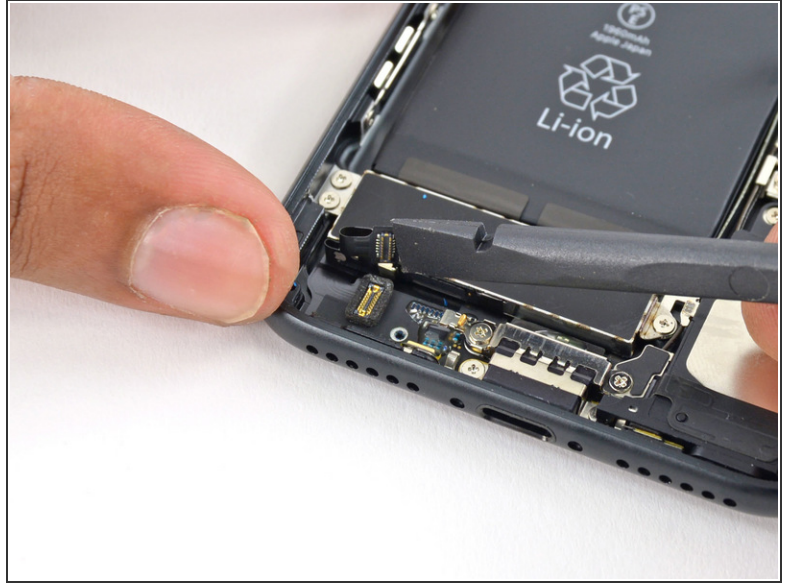
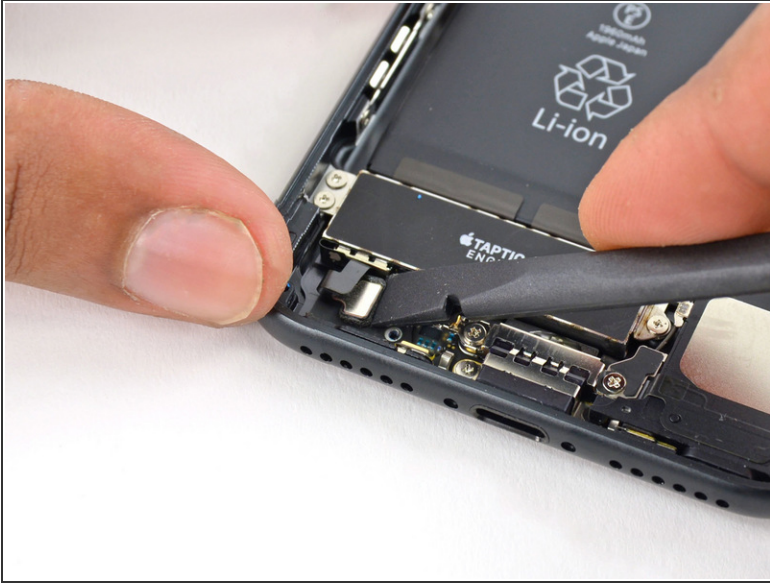
## Step 20



- Remove the vent.



## Step 21 — Taptic Engine



- Use the flat end of a spudger to disconnect the Taptic Engine connector from its socket on the logic board.

## Step 22



- Remove the three 1.6 mm Phillips screws securing the Taptic Engine to the rear case.



## Step 23



- Remove the Taptic Engine.

## Step 24 — Speaker Assembly



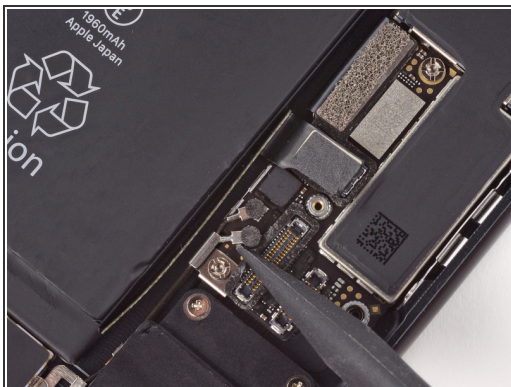
- Remove the Phillips screw securing the Wi-Fi diversity antenna to the rear case:
  - One 3.2 mm screw

## Step 25



- Remove the following three Phillips screws securing the speaker to the rear case:
  - Two 1.3 mm screws
  - One 2.0 mm screw

## Step 26



- Use the point of a spudger to lift the two antenna cable connectors up off of the sockets on the logic board.



## Step 27



- Use tweezers to derout the antenna cables from their bracket on the logic board.

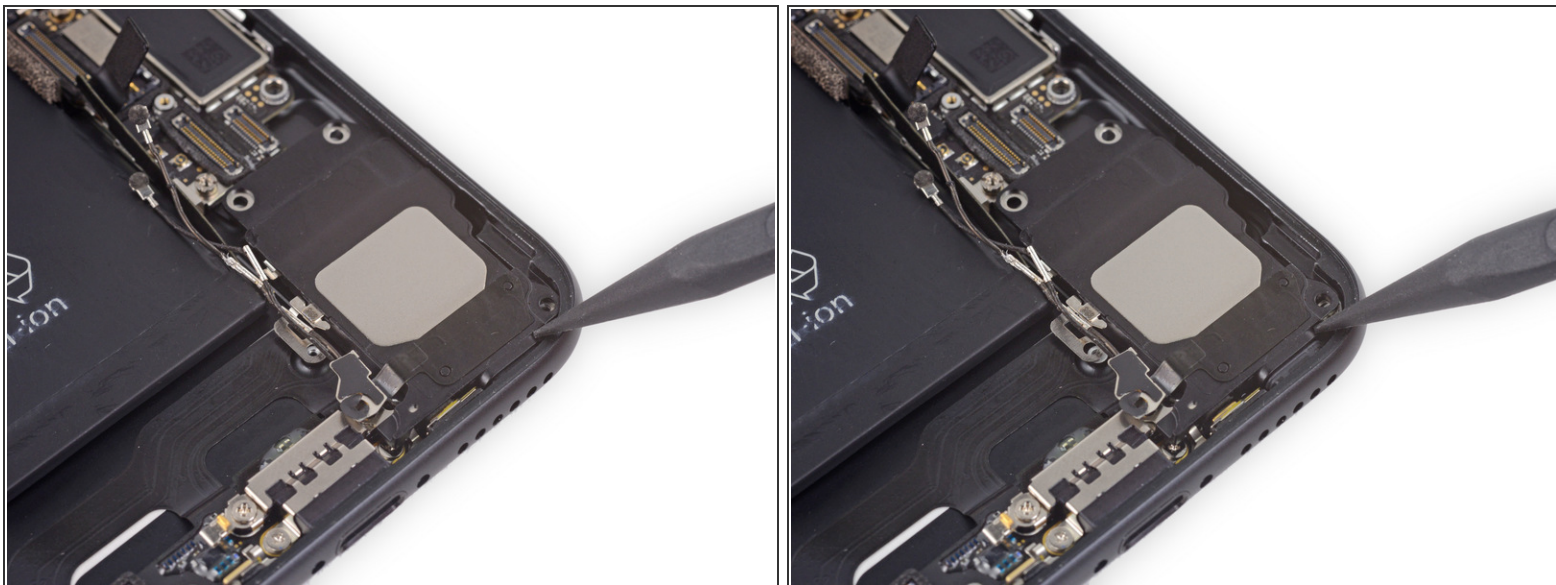
## Step 28



- Use tweezers to remove the antenna cables from the clip on the speaker.
- ⚠ Make sure to grasp the cable near the clip in order to avoid damaging the cable.



## Step 29



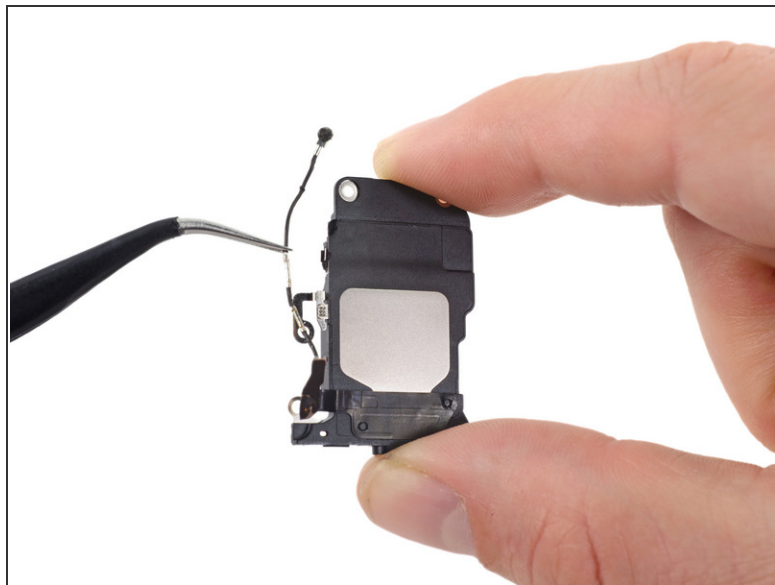
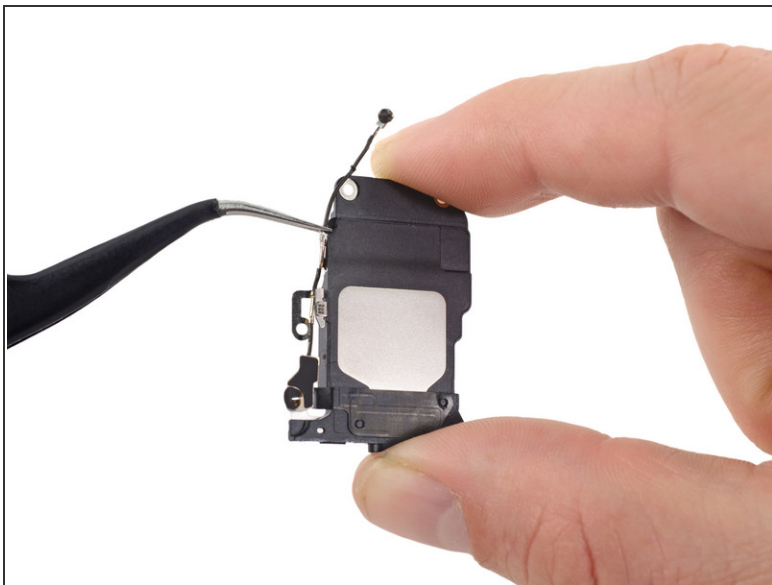
- Use the tip of a spudger to slide the speaker assembly towards the logic board and off of the rear case.

## Step 30



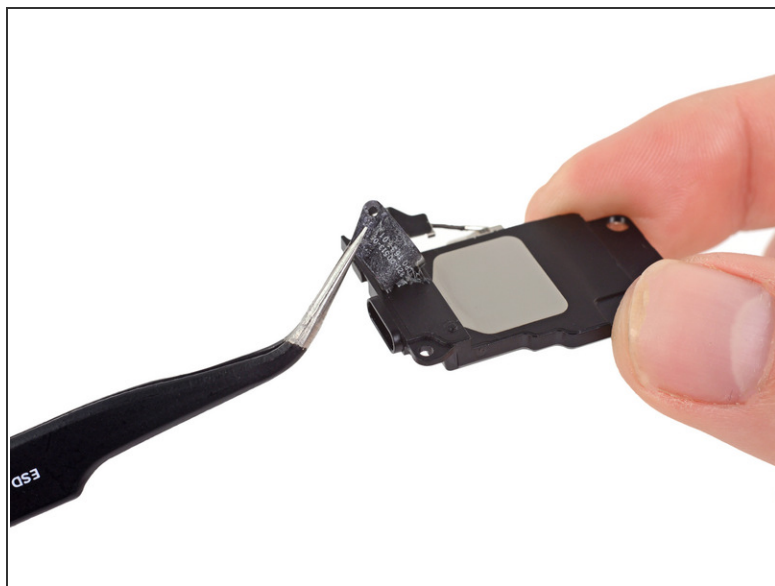
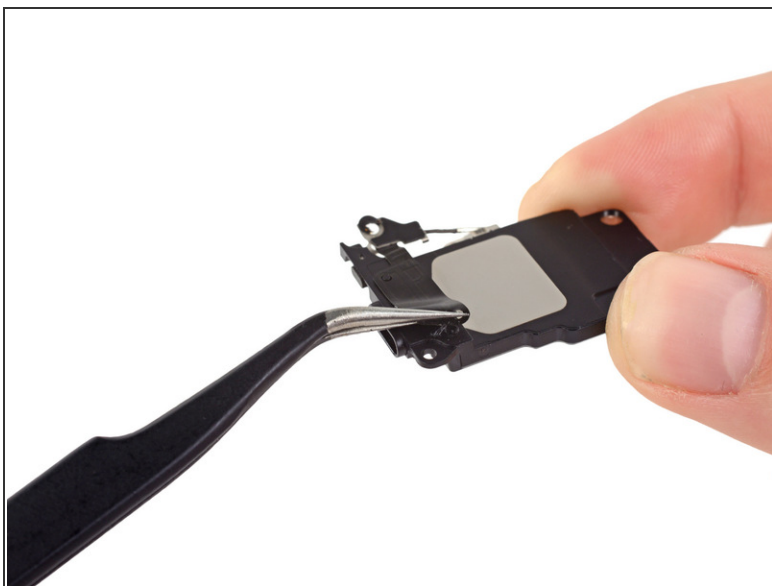
- Remove the speaker.

## Step 31 — Wi-Fi Diversity Antenna



- Gently remove the antenna from the clip on the speaker.

## Step 32



- Gently remove the tab by lifting up with tweezers and separate the tab from the speaker.

## Step 33



- Remove the Wi-Fi diversity antenna.

To reassemble your device, follow these instructions in reverse order.

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